C.CRANE

CCRadio-SWP

Pocket Radio

INSTRUCTION MANUAL

**PLEASE READ ALL THE INSTRUCTIONS
COMPLETELY BEFORE USE
AND SAVE THIS MANUAL
FOR FUTURE REFERENCE.**

⚡ *Before Use* ⚠

Please read IMPORTANT SAFETY INSTRUCTIONS on pages 23-25 before use. It is important to read and understand all instructions. Keep these precautions and instructions where all who use this radio will read them.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE RADIO BACK. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡ THE LIGHTNING FLASH AND ARROWHEAD WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF "DANGEROUS VOLTAGE" INSIDE THE RADIO.

⚠ THE EXCLAMATION POINT WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF IMPORTANT INSTRUCTIONS ACCOMPANYING THIS RADIO.

For your future reference:

Serial No. _____
(found inside battery compartment)

Date of Purchase _____

Name & Address of Dealer _____

_____

_____

Unpacking

The box should contain the CCRadio-SWP, earbuds, carry pouch and this manual. If anything is missing or damaged, please contact your dealer immediately. We recommend you keep the box in the unlikely event your radio needs to be serviced.

1. Slide ㉜ (pg. 10) "SENSITIVITY" switch to "DX" position.

2. Install two AA batteries in the ㊳ battery compartment, paying close attention to orientation of the batteries' + and – ends.

3. Turn on the radio by pressing the ❶ POWER button.

4. Adjust ❽ "VOLUME"

5. Select band by pressing the ⑪ BAND button

6. Use the ❷ "TUNING" knob to locate a station or by directly entering a frequency:

   a) First, select the ⑪ BAND you want

   b) press the ⑫ "FREQ" UENCY" button

   c) Enter the frequency on the ⑬ keyboard.

Table of Contents

Radio Identification – Front View

FM STEREO / AM / SW → 200 MEMORIES
WORLD BAND RECEIVER   PLL SYNTHESIZED

POWER
SLEEP
LIGHT
DISPLAY
ALARM
VOLUME
MEM TIME
FAVORITES
UP ▲
DOWN ▼
BAND
FREQ

CCRANE
CCRadio-SWP
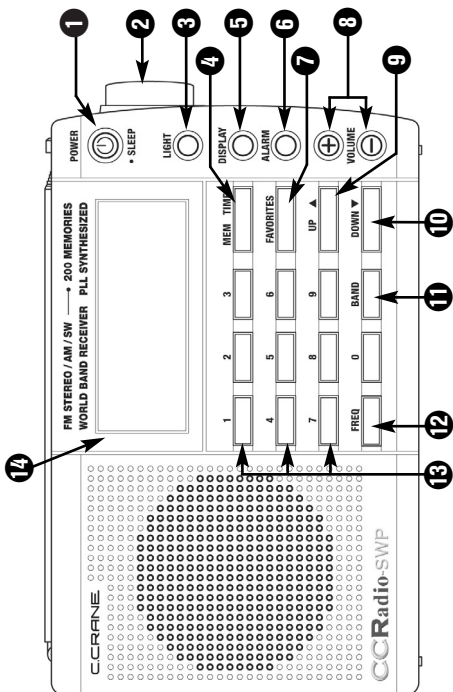
❶ POWER and SLEEP Timer

❷ TUNING Knob

❸ LIGHT Button

❹ MEMORY, TIME SET Button

❺ DISPLAY, Time, Frequency, Alarm, AM Step, 12/24 Hour

❻ ALARM, (De)Activate Alarm, Set Alarm Time

❼ FAVORITES, Tune Memories only

❽ VOLUME, Up and Down

❾ UP ∧, Frequency, Time, Memory Tune

❿ DOWN ∨, Frequency, Time, Memory Tune

⓫ BAND, Change Bands,
• 9-10 kHz steps

⓬ "FREQ"UENCY, Press to enter Frequency

⓭ 0-9 KEYS, Direct Frequency and Memory access

⓮ LCD Display

Radio Identification – LCD Display

15 Stereo
16 TUNE
17 ▭
18 AL
19 AUTO
20 (( ))
21 ⊶O
22 M.SCAN
23
24 kHz
25 MHz
26
27 AM / PM
28 SW II
29 MW
30 FM
31 VOL
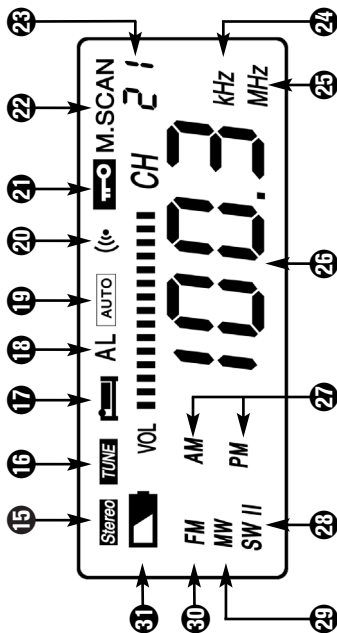
⓯ FM STEREO indicator, displays only when headphones are used

⓰ TUNE indicator means a station or noise is high

⓱ SLEEP FUNCTION indicator

⓲ AL means alarm is active

⓳ AUTO, Radio alarm or goes to Buzzer, if radio is already "on"

⓴ BUZZER •)) indicates buzzer type alarm

㉑ LOCK switch is "on"

㉒ M.SCAN (FAVORITES), tunes memorized stations only

㉓ Indicates memory channel number 00-199 for Memory Stations

㉔ kHz indicates Kilohertz while in AM and SW bands only

㉕ MHz indicates Megahertz in FM band

㉖ Time or Frequency display

㉗ AM/PM show while in 12 hour time format

㉘ SWI or SWII, indicates Shortwave I or Shortwave II

㉙ MW indicates "AM" in U.S. (medium wave)

㉚ FM indicates radio is in FM band

㉛ BATTERY flashing indicates batteries are low
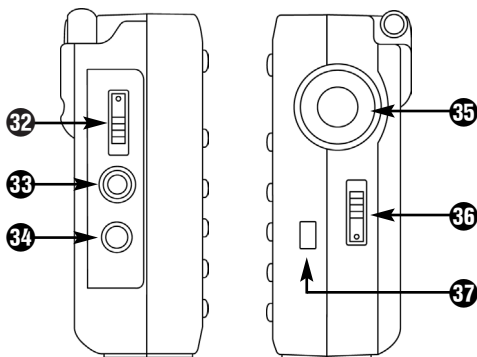
32 DX - LOCAL switches Sensitivity of
SW and FM bands

33 EARPHONE jack

34 DC Power Jack, 3 Volts, Tip Negative

35 TUNING KNOB adjusts Frequency,
Time, Presets

36 BASS - NORMAL Switch, select for
best sound

37 LOCK, press to lock, hold for
1 second to unlock
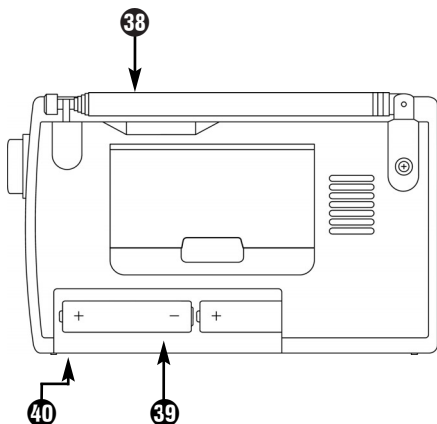
38 WHIP ANTENNA used for FM and
SW bands

39 BATTERY COMPARTMENT
LOCATION, insert 2 "AA" batteries

40 RESET HOLE for resetting radio
(located on bottom of radio)

Features and Operation Explained

Introduction

The CCRadio-SWP is the perfect size for packing around. It is unusually good at picking up stations. Audio is clear for its size, while taking as long as 70 hours to wear down a set of two AA batteries. Using the Tuning knob can be wearisome as it is with any small radio. The SWP has a novel way to zip around the bands to your favorite stations. "FAVORITES" (Memory Scan) can be used to quickly access all of your AM/FM and SW stations rapidly and across bands without pressing buttons. We encourage you to learn how to memorize a station (page 14). You can then use the "FAVORITES" button and the Tuning Knob to quickly scan your memory presets.

❶ POWER • SLEEP Button

When you press and release the "POWER" button the first time, you will see "on" displayed for about two seconds. Press the "POWER" button again to turn the radio off.

To change to a "SLEEP" setting, press "POWER" again during the short time the "on" is displayed. It will first show "90" minutes and then decrease by five minutes for

each successive press. You have a choice of "on", and from 90 minutes down to 5 minutes by 5-minute steps. Stop on the setting you desire and it will be remembered for your convenience each time you turn the radio "on" again. If you select any one of the sleep settings, except "on", the SLEEP symbol 🛏 will be displayed while the radio is "on". When "on" is selected, the radio will simply turn on and off each time the power button is pushed.

Pressing the "POWER • SLEEP" button while the radio is operating on any of the SLEEP settings will turn the radio off.

➋ TUNING KNOB

Turn the Tuning Knob while the radio is on to tune to a different frequency.

When setting the clock or alarm, it is also a good way to change the time, rather then using the up and down buttons.

The Tuning Knob also works when you have your favorite stations in memory. You can press "FAVORITES" and use the tuning knob to quickly access your memorized station. See page 16 for ➐ "FAVORITES".

❸ LIGHT

Pressing the "LIGHT" button will give you about eight seconds of light on the display.

❹ SETTING CLOCK TIME / SAVING A STATION TO MEMORY

The **Memory/Time SET** key works in two ways:

1. **When the radio is "off"** press and *hold* for one second until "Hour" flashes. You have eight seconds to set the hour. Use either the Tuning Knob or "UP" and "DOWN" buttons. Press again to set the minutes. Press a third time to confirm when done. You can change from 12 hour to 24 hour clock format by holding the "DISPLAY" button for five seconds.

2. **When the radio is "on"** the key is used to store a station into memory. First, tune to a station or frequency you want. Press "MEM T.SET and *CH* will blink in the upper right corner of the LCD display. Rotate the Tuning Knob to the memory channel where you want to store the station. The memory channels are numbered from "00" to "199". Press "MEM T.SET" again to finalize the memorized

station. There is a log in the back of this manual on pages 28-31 to help you organize your stations. Your memories will not be lost when batteries go dead or if you reset the radio.

❺ DISPLAY button

The DISPLAY button works in two ways:

1. **When the radio is "on"** the LCD display normally shows the frequency. Pressing the "DISPLAY" button will toggle the display through "ALARM TIME", "TIME" of day, and "SLEEP" timer status. It will show the minutes left on the "SLEEP" timer or "on" if the sleep timer is not being used.

2. **When the radio is "off"** the LCD display normally shows the time of day. Pressing the "DISPLAY" button will toggle the display through "ALARM TIME", tuning steps for AM, and your choice of 12 or 24 hour clock format. While the radio is "off", you can change from 12 hour to 24 hour clock format by holding the "DISPLAY" button for five seconds. Change it back using the same method. See ⓫ "BAND" button on page 17 to change tuning steps for AM.

Features and Operation Explained

❻ SETTING THE ALARM

You can activate or deactivate the alarm if the radio is "on" or "off". Pushing the "ALARM" button once sets the alarm to AUTO and the "radio" alarm. (The radio will alarm on the last station listened to.) A second push of the "ALARM" button sets the alarm to "buzzer" ((•. A third press of the "ALARM" button turns off both icons and the radio will not alarm. Press the "Power" button to stop the alarms when they come on. **The alarm will not work if headphones are plugged in.**

Set the alarm time with the radio "off". Press and hold the "ALARM" button for two seconds. Use the Tuning Knob to set the hours, press the "ALARM" button again and set the minutes. You must press the "ALARM" button again when done to confirm the "ALARM" time.

If the alarm is set to "AUTO" and you happen to have the radio "on" at the alarm time, then the buzzer will automatically come on, too.

❼ FAVORITES

Pressing the "FAVORITES" key allows you to

tune the stations you have installed in memory exclusively. You can use the Tuning Knob, "Up" and "Down" buttons, or 0-9 Keys to change memory channels. This can save you much time if you are familiar with the stations in your area. There is no other function to this button. Press "FAVORITES" again to go back to regular tuning.

❽ VOLUME

This is easy, up **+** and down **-**.

❾ UP ∧ and ❿ DOWN ∨ Buttons

These buttons can be used to tune the radio one step at a time or "press and hold" to scan for the next strong station.

The buttons can also be used when setting the time or to scroll through memorized stations while in ❼ FAVORITES (Memory Scan) mode.

⓫ BAND button

Pressing the "BAND" button with the radio "on" changes bands in order: FM, AM, SW1, and SW2.

With the radio "off", the "BAND" button can be pressed and held for five seconds to

change the AM tuning steps from 10 to 9 kHz. The U.S. uses 10 kHz. Most of the rest of the world uses 9 kHz steps. It could be important to change the AM step rate if you use the "Up" and "Down" button to scan for stations and you happen to be in a foreign country.

⓬ "FREQ"*UENCY* Button

This is used to directly enter a frequency. You must be in the radio band of your choice before you enter a frequency. AM and SW is straightforward. Press "FREQ" and enter the AM or SW frequency using the numbered keys. For FM you must enter a last digit. To enter 100.3 FM you must press "FREQ" and then press 1-0-0-3.

⓭ 0-9 KEYS

These are used to directly enter a frequency or memory channel. See ⓬ "FREQ"-UENCY button for direct entry.

While in ❼ FAVORITES (Memory Scan) mode you can also enter the channel number of a station you memorized. There is a programming quirk, however. Because there are 200 channels, you must key in 3 digits for each number. Channel "00" through "9"

must be entered with a "00" in front of the channel number. Channel numbers 10 through 19 must have a "0" entered in front of the channel number. Example: Channel "1" must be entered as 0-0-1.

⑭ LCD DISPLAY

Learning the features and the corresponding display icons can make your radio easier to use.

Performance Tips

While excellent for fine tuning, the Tuning Knob moves in only 1 kHz steps. Using the FAVORITES (Memory Scan) to dial right to your stations is a fast and easy method (page 16). You also have the ability to directly enter a frequency. See Shortwave Tips on page 26.

For best AM reception, rotate the radio for the clearest audio. If radio noise is present, try moving the radio to a better location so the noise decreases. Many times this is only a few inches or feet away. In a hotel room, try putting it in a window sill.

For FM, the telescopic antenna "up full"

Performance Tips

usually gives best reception. The antenna can also be rotated and shortened until the best signal is received.

Always fully extend the telescopic antenna for the best Shortwave reception. SW reception can easily be improved with the addition of a very simple antenna. A portable SW antenna available from C. Crane works well for travel.

Also, any insulated small diameter wire can be wound around the whip antenna and extended out 20' to 60'. The wire can be mounted on the inside of an outside wall or out a window and along the top of a non-metal fence. Simple experimentation with the antenna wire location is the best way.

Most of the time, leave the DX-LOCAL switch set on DX, unless you are receiving an overly strong station. This can keep the strong station from overdriving the radio and also help in listening to a weaker station that is next to a strong station.

The buttons can be somewhat hard to press. Check the LCD display to confirm that you have pressed it hard enough to register.

Troubleshooting Guide

This radio has a microprocessor. If the display disappears or has odd characters, try resetting the radio. Use a toothpick or paperclip to momentarily stick in the "reset" hole gently. It is located on the bottom of the radio. The radio can be "on" or "off" when this is done. There must be power to the radio either by AC Adapter or batteries.

NO AUDIO: Be sure the volume is up and headphone jack does not have something in it. The alarm will not work if headphones are plugged in.

RADIO WILL NOT COME ON: Be sure the "LOCK" switch is off. Press and hold for one second to turn "LOCK" off.

BATTERIES: Do not mix old batteries with new batteries. The battery icon 🔋 flashes when the batteries are low. You have 15 seconds to change a set of batteries or you may have to set the clock time again.

AC ADAPTER: Make sure it is fully plugged into the radio.

SENSITIVITY: Be sure DX-LOCAL switch is on "DX". DX is an abbreviation for "distance". Be sure the antenna is up fully for FM and SW.

Specifications

1. Frequency Coverage:
   FM   70.0 ~ 108.0MHz
   AM (MW)   522 ~ 1628kHz (9k step)
             520 ~ 1710kHz (10k step)
   SW1   2300 ~ 7500kHz
   SW2   9200 ~ 22000kHz
2. S/N (Signal to Noise) Sensitivity:
   FM   > 10uV
   AM   > 1mv/m (this is extraordinary)
   SW   > 30uV
3. AM Selectivity: > 25dB
4. Number of Memories: 200
5. Power Source:
   2 (AA Size) or LR2
   DC IN: 3V 150mA, Tip (-) 3.5mm x 1.3mm
6. Built-in Speaker: 25ohm   0.5W
7. Earphone Socket: 3.5mm 32ohm
8. Dimensions: 4.75" W x 3" H x 1.2" D

Power Adapter

If you have purchased an optional AC-DC adapter, be sure it is the correct voltage. It should have an output of three Volts DC with the center negative, and not less than 150 MAh. Use only the recommended adapter. Otherwise it may damage the radio or cause a fire or electric shock.

Safety Instructions

**READ BEFORE
OPERATING EQUIPMENT
SAVE THESE INSTRUCTIONS**

To prevent damage to your radio or possible injury to you or others, read these safety precautions and instructions entirely before applying power to your radio. Keep these precautions and instructions where all who use this radio will read them.

1) COMMON CARE ⚠
   Check the radio, AC adapter, batteries and any accessories regularly. Do not use the radio if there is any sign of damage. Only operate in accordance with the instructions in this manual. Only use attachments or accessories specified by the manufacturer.

2) PROPER BATTERY HANDLING ⚠
   Never mix different type of batteries or use old batteries with new. We recommend you remove batteries from the radio if you are not going to use the radio for one month or more.

3) DISCONNECT THE RADIO
   IN CASE OF MALFUNCTION ⚠
   If you smell or notice smoke, disconnect

the AC Adapter and remove the batteries immediately, taking care to avoid burns. Contact C. Crane Company or their representative for inspection and service before any future operation. Only use the AC-DC Adapter recommended with the unit and replace it if wires become frayed or exposed. It should have an output of three Volts DC with the center negative, and not less than 150 MAh. Use only the recommended adapter. Otherwise it may damage the radio or cause a fire or electric shock.

4) **KEEP OUT OF REACH OF CHILDREN** ⚠

Dropping the radio can cause damage or injury. Keep the AC Adapter cord in a position so someone cannot trip and cause the radio to fall.

5) **KEEP AWAY FROM WATER AND MOISTURE** ⚠

Keep the radio dry. Liquids and moisture can damage the radio. If a liquid leaks into the radio do not operate and seek a qualified service shop. To clean the radio, remove the power and use a damp cloth on the exterior only.

6) **KEEP AWAY FROM EXTREME TEMPERATURES** ⚠

Extreme temperatures can damage the radio. Do not leave or use the radio where it can be subjected to high or very cold temperatures.

7) **DO NOT ATTEMPT TO SERVICE RADIO** ⚠

Refer all service work to a qualified service shop when the radio does not appear to operate normally, exhibits a change in performance or the radio has received damage. Never open the radio as this may expose you to dangerous voltages and this will void all warranties.

8) **OUTSIDE ANTENNAS OR CABLES** ⚠

Outside antennas or cables that create a potential hazard should not be used with this radio unless installed by qualified personnel.

Shortwave Tips

The CCRadio-SWP covers all of the important international broadcast bands. A "*" symbol signifies where you most likely find the best listening. They are listed by frequency and then the (meter band). There are exceptions to every rule in Shortwave. Reception will vary when you are in a foreign country.

The CCRadio-SWP has plenty of memory. If you install active frequencies into memory, you can recall them easily. When you are trying to find a station, it is best to switch to manual tuning, using the tuning knob.

SWI

2300~2495 kHz (120m) –
mostly tropical regions

3200~3400 kHz (90m) –
mostly tropical regions

3900~4050 kHz (75m) –
mostly Europe

4400~5100 kHz (60m) –
night, mostly tropical

5800~6300 kHz (49m) –
all year-round, night

7100~7600 kHz (41m) –
best at night

Shortwave Tips

SWII

9250~9995 kHz (31m) –
    all year, night/winter *****

11.50~12.16 MHz (25m) –
    summer; near sunset

13.57~13.87 MHz (22m) –
    day and summer

15.00~15.825 MHz (19m) –
    day and summer *****

17.48~17.90 MHz (16m) –
    day and summer

18.90~19.02 MHz (15m) –
    day, not much

21.45~21.85 MHz (13m) –
    day, not much

Shortwave broadcasters use Universal Time Coordinated (UTC) time to coordinate their shows. You can normally find a UTC time signal at 5,000, 10,000 or 15,000 kHz.

Station Log

000 _____	025 _____
001 _____	026 _____
002 _____	027 _____
003 _____	028 _____
004 _____	029 _____
005 _____	030 _____
006 _____	031 _____
007 _____	032 _____
008 _____	033 _____
009 _____	034 _____
010 _____	035 _____
011 _____	036 _____
012 _____	037 _____
013 _____	038 _____
014 _____	039 _____
015 _____	040 _____
016 _____	041 _____
017 _____	042 _____
018 _____	043 _____
019 _____	044 _____
020 _____	045 _____
021 _____	046 _____
022 _____	047 _____
023 _____	048 _____
024 _____	049 _____

Log Pages may be copied for your use. C. Crane

Station Log

050 _____	075 _____
051 _____	076 _____
052 _____	077 _____
053 _____	078 _____
054 _____	079 _____
055 _____	080 _____
056 _____	081 _____
057 _____	082 _____
058 _____	083 _____
059 _____	084 _____
060 _____	085 _____
061 _____	086 _____
062 _____	087 _____
063 _____	088 _____
064 _____	089 _____
065 _____	090 _____
066 _____	091 _____
067 _____	092 _____
068 _____	093 _____
069 _____	094 _____
070 _____	095 _____
071 _____	096 _____
072 _____	097 _____
073 _____	098 _____
074 _____	099 _____

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Station Log

100	125
101	126
102	127
103	128
104	129
105	130
106	131
107	132
108	133
109	134
110	135
111	136
112	137
113	138
114	139
115	140
116	141
117	142
118	143
119	144
120	145
121	146
122	147
123	148
124	149

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Station Log

150 _____	175 _____
151 _____	176 _____
152 _____	177 _____
153 _____	178 _____
154 _____	179 _____
155 _____	180 _____
156 _____	181 _____
157 _____	182 _____
158 _____	183 _____
159 _____	184 _____
160 _____	185 _____
161 _____	186 _____
162 _____	187 _____
163 _____	188 _____
164 _____	189 _____
165 _____	190 _____
166 _____	191 _____
167 _____	192 _____
168 _____	193 _____
169 _____	194 _____
170 _____	195 _____
171 _____	196 _____
172 _____	197 _____
173 _____	198 _____
174 _____	199 _____

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